

Rujul Gandhi

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Education

- 2018 - **Massachusetts Institute of Technology**, GPA: 4.7/5.0.
current
 - MEng candidate, 2022-2023. Concentration in AI.
 - SB 2022 in Linguistics, Electrical Engineering & Computer Science.
 - Coursework: 6.036 *Machine Learning*, 6.806/6.884 *Advanced Natural Language Processing*, 6.011 *Signals, Systems, and Inference*, 16.420 (ongoing) *Planning Under Uncertainty*, 9.660 (ongoing) *Computational Cognitive Science*, 24.962 *Advanced Phonology*, 24.903 *Semantics*

Work Experience

- Sept 2022 - **Research Assistant in language processing**, *REALM group, MIT AeroAstro*.
May 2023
 - Exploring methods to convert natural language constraints into logical representations for the purpose of robotic planning and formal verification.

Jan 2022 - **Research in emergent communication**, *Interactive Robotics Group, MIT CSAIL*.
May 2022
 - Worked on building and running experiments to efficiently induce communication between collaborating neural network agents.

Sept 2021 - **Teaching Assistant**, *9.19: Computational Psycholinguistics*.
Dec 2021
 - Testing and designing assignments, assisting students in understanding, and leading recitation sections. Class content covers language modeling and perception.

Mar 2020 - **Researching the acoustics of language**, *Linguistics Dept, MIT*.
current
 - Conducting a study of retroflex production in the context of language interaction.
 - Includes experiment design, audio data collection and annotation using Praat, and data analysis using R.

June 2021 - **Engineering prosthetic voices**, *VocaliD*.
Aug 2021
 - Interned at a voice AI company creating synthetic voices for individuals and brands.
 - Improved voice synthesis and helped expand the company's reach into other languages and services.

Dec 2020 - **Connecting refugees to interpreters**, *Tarjimly*.
Feb 2021
 - Established global partnerships for a tech nonprofit that provides on-demand interpretation.
 - Designed a language tree implementation to improve beneficiary-interpreter matching in the Tarjimly app.

Skills

- Technical: Python, R, SQL, Praat, C/C++, HTML/CSS
People: communication, partnerships, team dynamics, project management
Languages: English (native), Marathi (native), Hindi (fluent), Urdu (functional), German, Sanskrit

Leadership

- Feb 2019 - **MIT Educational Studies Program**.
Feb 2022
 - Director, Splash 2020: Designed the first virtual version of ESP's largest annual educational program.
 - Co-directed educational programs serving thousands of students and hundreds of volunteer teachers.

Mar - Sept 2020 **Content Development Lead**, *Mask Banao*.
2020
 - Developed organization-level strategy and bilingual content for a COVID-19 awareness campaign.
 - Led a cross-continental team of 30 in adapting to rapidly changing local and global circumstances, providing 75,000 masks to people in need and reaching 20 million people on social media.

Awards and Honors

- 2021 Burchard Scholar, MIT School of Humanities, Arts, and Social Sciences